

WEST Search History

DATE: Thursday, April 22, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L20	L18 and (l11 or nrps)	38
<input type="checkbox"/>	L19	L18 and (l2 or nrps)	136
<input type="checkbox"/>	L18	L16 and ((l12 or pks or nrps) same (start\$ or load\$))	136
<input type="checkbox"/>	L17	L16 and (l12 same (start\$ or load\$))	101
<input type="checkbox"/>	L16	L15 and hybrid	243
<input type="checkbox"/>	L15	L14 and (start\$ or load\$)	316
<input type="checkbox"/>	L14	L12 and l4	338
<input type="checkbox"/>	L13	L12 and (start\$ or load\$)	472
<input type="checkbox"/>	L12	L11 or l10	617
<input type="checkbox"/>	L11	nonribosomal adj2 peptide adj2 (synthase or synthetase)	42
<input type="checkbox"/>	L10	polyketide adj2 (synthetase or synthase)	609
<input type="checkbox"/>	L9	L7 and hybrid	4649
<input type="checkbox"/>	L8	L7 nad hybrid	193015
<input type="checkbox"/>	L7	L6 and l5	7555
<input type="checkbox"/>	L6	start\$ or load\$ same l3	1935562
<input type="checkbox"/>	L5	L4 and l3	9493
<input type="checkbox"/>	L4	rapamycin or rifamycin or yersiniabactin or mycobactin or myxothiazol or epothilone or microcystin or fk520 or bleomycin	14210
<input type="checkbox"/>	L3	L2 or l1	182098
<input type="checkbox"/>	L2	nonribosomal (2w) peptide (2w) (synthase or synthetase)	181947
<input type="checkbox"/>	L1	polyketide (2w) (synthase or synthetase)	35121

END OF SEARCH HISTORY

STN Search Summary
10/087451

=> d his

FILE 'CAPLUS' ENTERED AT 16:06:41 ON 22 APR 2004

L1 1149 S POLYKETIDE (2W) (SYNTHETASE OR SYNTHASE)
L2 215 S NONRIBOSOMAL (2W) PEPTIDE (2W) (SYNTHETASE OR SYNTHASE)
L3 1284 S L1 OR L2
L4 13384 S rapamycin or yersiniabactin or mycobactin or myxothiazol or
epothilone or microcystin or
fk520 or bleomycin
L5 157 S L3 AND L4
L6 21 S L5 AND LOAD?
L7 6 S L6 AND HYBRID

L6 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:678955 CAPLUS

TI Spinosyn polyketide synthase fusion products
synthesizing novel spinosyns and their preparation and use
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2003070908 A2 20030828 WO 2003-US4998 20030219
US 2003225006 A1 20031204 US 2003-368770 20030219
PRAI US 2002-358075P P 20020219

L6 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:573354 CAPLUS
TI BlmIII and BlmIV Nonribosomal Peptide
Synthetase-Catalyzed Biosynthesis of the Bleomycin
Bithiazole Moiety Involving Both in Cis and in Trans Aminoacylation
AU Du, Liangcheng; Chen, Mei; Zhang, Yang; Shen, Ben
SO Biochemistry (2003), 42(32), 9731-9740

L6 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:965021 CAPLUS
TI Biosynthesis of polyketide synthase substrates
PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 2002192767 A1 20021219 US 2002-87451 20020228
US 2002045220 A1 20020418 US 2001-798033 20010228
US 2002142401 A1 20021003 US 2001-942407 20010829
PRAI US 1999-159090P P 19991013
US 2000-206082P P 20000518
US 2000-232379P P 20000914
US 2000-687855 A2 20001013
US 2001-798033 A2 20010228
US 1999-161414P P 19991025
US 1999-161703P P 19991027
US 2000-699136 A3 20001027

L6 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:940403 CAPLUS
TI Quantitative Analysis of Loading and Extender Acyltransferases
of Modular Polyketide Synthases
AU Liou, Grace F.; Lau, Janice; Cane, David E.; Khosla, Chaitan
SO Biochemistry (2003), 42(1), 200-207

L6 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:676167 CAPLUS
 TI Biosynthesis of unusual substrates for polyketide
 synthases and their use in the biosynthesis of novel polyketides
 PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002068613	A1	20020906	WO 2002-US6399	20020228
	US 2002045220	A1	20020418	US 2001-798033	20010228
	EP 1381672	A1	20040121	EP 2002-725059	20020228
PRAI	US 2001-798033	A	20010228		
	US 2002-355211P	P	20020208		
	US 1999-159090P	P	19991013		
	US 2000-206082P	P	20000518		
	US 2000-232379P	P	20000914		
	US 2000-687855	A2	20001013		
	WO 2002-US6399	W	20020228		

L6 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:561860 CAPLUS
 TI Skipping in a Hybrid Polyketide Synthase. Evidence for
 ACP-to-ACP Chain Transfer
 AU Thomas, Iain; Martin, Christine J.; Wilkinson, Christopher J.; Staunton,
 James; Leadlay, Peter F.
 SO Chemistry & Biology (2002), 9(7), 781-787

L6 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:294174 CAPLUS
 TI Biosynthesis of polyketide synthase substrates
 PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002045220	A1	20020418	US 2001-798033	20010228
	US 2002142401	A1	20021003	US 2001-942407	20010829
	WO 2002068613	A1	20020906	WO 2002-US6399	20020228
	US 2002192767	A1	20021219	US 2002-87451	20020228
	EP 1381672	A1	20040121	EP 2002-725059	20020228
PRAI	US 1999-159090P	P	19991013		
	US 2000-206082P	P	20000518		
	US 2000-232379P	P	20000914		
	US 2000-687855	A2	20001013		
	US 1999-161414P	P	19991025		
	US 1999-161703P	P	19991027		
	US 2000-699136	A3	20001027		
	US 2001-798033	A	20010228		
	US 2002-355211P	P	20020208		
	WO 2002-US6399	W	20020228		

L6 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:267521 CAPLUS
 TI Engineering specificity of starter unit selection by the
 erythromycin-producing polyketide synthase
 AU Long, Paul F.; Wilkinson, Christopher J.; Bisang, Christian P.; Cortes,
 Jesus; Dunster, Nicholas; Oliynyk, Marko; McCormick, Ellen; McArthur,
 Hamish; Mendez, Carmen; Salas, Jose A.; Staunton, James; Leadlay, Peter F.
 SO Molecular Microbiology (2002), 43(5), 1215-1225

L6 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:813039 CAPLUS
 TI Nonribosomal biosynthesis of microbial chromopeptides
 AU Keller, Ullrich; Schauwecker, Florian
 SO Progress in Nucleic Acid Research and Molecular Biology (2001), 70,
 233-289

L6 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:686932 CAPLUS
~~TI~~ Epothilone biosynthesis: assembly of the methylthiazolylcarboxy
 starter unit on the EpoB subunit
 AU Chen, H.; O'Connor, S.; Cane, D. E.; Walsh, C. T. *Sept. - too late*
 SO Chemistry & Biology (2001), 8(9), 899-912

L6 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:637137 CAPLUS
 TI Enzymatic assembly of hybrid polyketide/nonribosomal peptide natural
 products
 AU Walsh, C. T.
 SO Abstracts of Papers, 222nd ACS National Meeting, Chicago, IL, United
 States, August 26-30, 2001 (2001), BIOL-126 Publisher: American Chemical
 Society, Washington, D. C.
 DT Conference; Meeting Abstract

L6 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:232268 CAPLUS
 TI Yersiniabactin Synthetase: Probing the Recognition of Carrier
 Protein Domains by the Catalytic Heterocyclization Domains, Cyl and Cy2,
 in the Chain-Initiating HMWP2 Subunit
 AU Miller, Deborah Ann; Walsh, Christopher T.
 SO Biochemistry (2001), 40(17), 5313-5321

L6 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:51333 CAPLUS
 TI Mechanisms of molecular recognition in the pikromycin polyketide
 synthase
 AU Chen, Shuo; Xue, Yongquan; Sherman, David H.; Reynolds, Kevin A.
 SO Chemistry & Biology (2000), 7(12), 907-918

L6 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:368562 CAPLUS
 TI Epothilone and epothilone derivatives production based
 on recombinant nucleic acids encoding the epithilone polyketide
 synthase from Sorangium cellulosum

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000031247	A2	20000602	WO 1999-US27438	19991119
	WO 2000031247	A3	20001207		
	EP 1135470	A2	20010926	EP 1999-960500	19991119
	JP 2002530107	T2	20020917	JP 2000-584057	19991119
	AU 768220	B2	20031204	AU 2000-17377	19991119
	US 6410301	B1	20020625	US 2000-560367	20000428
	US 2003096381	A1	20030522	US 2002-191694	20020708
PRAI	US 1998-109401P	P	19981120		
	US 1999-119386P	P	19990210		
	US 1999-122620P	P	19990303		
	US 1999-130560P	P	19990422		
	US 1999-443501	A2	19991119		
	WO 1999-US27438	W	19991119		
	US 2000-560367	A1	20000428		

L6 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:94673 CAPLUS
 TI Selectivity of the Yersiniabactin Synthetase Adenylation Domain
 in the Two-Step Process of Amino Acid Activation and Transfer to a
 Holo-Carrier Protein Domain
 AU Keating, Thomas A.; Suo, Zucali; Ehmann, David E.; Walsh, Christopher T.
 SO Biochemistry (2000), 39(9), 2297-2306

L6 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:88787 CAPLUS
 TI Cloning and heterologous expression of the epothilone gene
 cluster
 AU Tang, Li; Shah, Sanjay; Chung, Loleta; Carney, John; Katz, Leonard;
 Khosla, Chaitan; Julien, Bryan
 SO Science (Washington, D. C.) (2000), 287(5453), 640-642

L6 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:15378 CAPLUS
 TI Functional domains of polyketide synthetases and their
 use in the generation of novel synthetases and novel macrolide antibiotics
 IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; McArthur, Hamish
 Alastair Irvine
 SO PCT Int. Appl., 97 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000000618	A2	20000106	WO 1999-GB2044	19990629
	WO 2000000618	A3	20000427		
	AU 9945247	A1	20000117	AU 1999-45247	19990629
	AU 763230	B2	20030717		
	BR 9911712	A	20010320	BR 1999-11712	19990629
	EP 1090123	A2	20010411	EP 1999-928128	19990629
	JP 2002519032	T2	20020702	JP 2000-557371	19990629
PRAI	GB 1998-14006	A	19980629		
	WO 1999-GB2044	W	19990629		

L6 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:764178 CAPLUS
 TI Sequence and recombinant narbonolide polyketide synthase
 applications from Streptomyces venezuelae for creation of useful
 antibiotics

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9961599	A2	19991202	WO 1999-US11814	19990527
	WO 9961599	A3	20000127		
	US 6503741	B1	20030107	US 1998-141908	19980828
	CA 2328427	AA	19991202	CA 1999-2328427	19990527
	AU 9942137	A1	19991213	AU 1999-42137	19990527
	AU 762399	B2	20030626		
	EP 1082439	A2	20010314	EP 1999-925954	19990527
	JP 2002516090	T2	20020604	JP 2000-550984	19990527
	NZ 509006	A	20030926	NZ 1999-509006	19990527
	AU 769288	B2	20040122	AU 2001-57805	20010803
PRAI	US 1998-87080P	P	19980528		
	US 1998-141908	A	19980828		
	US 1998-100880P	P	19980922		
	US 1999-119139P	P	19990208		
	AU 1998-71722	A3	19980430		
	WO 1999-US11814	W	19990527		

L6 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:468634 CAPLUS
 TI Chimeric polyketide synthase gene assembly construct
 and its use in the synthesis of novel polyketides
 IN Leadlay, Peter Francis; Staunton, James; Wilkinson, Barrie; Rowe,
 Christine Janet; Bohm, Ines Ute; Buss, Antony David

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936546	A1	19990722	WO 1999-GB117	19990114
	CA 2318365	AA	19990722	CA 1999-2318365	19990114
	AU 9920667	A1	19990802	AU 1999-20667	19990114
	EP 1045912	A1	20001025	EP 1999-901036	19990114
	JP 2002508968	T2	20020326	JP 2000-540248	19990114
	HR 2000000474	A1	20001231	HR 2000-474	20000714
PRAI	GB 1998-675	A	19980114		
	GB 1998-879	A	19980115		
	WO 1999-GB117	W	19990114		

L6 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:597032 CAPLUS
 TI Characterization of the enzymic domains in the modular polyketide
 synthase involved in rifamycin B biosynthesis by Amycolatopsis
 mediterranei
 AU Tang, Li; Yoon, Yeo J.; Choi, Cha-Yong; Hutchinson, C. Richard
 SO Gene (1998), 216(2), 255-265

L6 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:66007 CAPLUS
TI Manufacture of substituted erythromycins with transgenic Saccharopolyspora
using a carboxylic acid-contg. medium
IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; Pacey, Michael
Stephen

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9801571	A2	19980115	WO 1997-GB1810	19970704
	WO 9801571	A3	19980219		
	CA 2259420	AA	19980115	CA 1997-2259420	19970704
	CA 2259463	AA	19980115	CA 1997-2259463	19970704
	AU 9734509	A1	19980202	AU 1997-34509	19970704
	AU 731301	B2	20010329		
	EP 909327	A2	19990421	EP 1997-930626	19970704
	GB 2331518	A1	19990526	GB 1999-156	19970704
	GB 2331518	B2	20010314		
	CN 1229438	A	19990922	CN 1997-197649	19970704
	BR 9710209	A	20000111	BR 1997-10209	19970704
	NZ 333861	A	20000825	NZ 1997-333861	19970704
	JP 2000516450	T2	20001212	JP 1998-504925	19970704
	AP 1029	A	20011211	AP 1999-1444	19970704
	EE 3976	B1	20030217	EE 1999-14	19970704
	WO 9854308	A2	19981203	WO 1998-GB1559	19980528
	WO 9854308	A3	19990408		
	AU 9876661	A1	19981230	AU 1998-76661	19980528
	EP 983348	A2	20000308	EP 1998-924463	19980528
	NO 9900012	A	19990223	NO 1999-12	19990104
	KR 2000023579	A	20000425	KR 1999-700024	19990105
	US 6271255	B1	20010807	US 1999-214454	19990916
	US 2001016598	A1	20010823		
	US 2002004487	A1	20020110	US 2001-896357	20010629
	US 6437151	B2	20020820		
	US 2003104585	A1	20030605	US 2002-307595	20021202
PRAI	GB 1996-14189	A	19960705		
	US 1996-24188P	P	19960819		
	GB 1997-10962	A	19970528		
	WO 1997-GB1810	W	19970704		
	WO 1998-GB1559	W	19980528		
	US 1999-214454	A3	19990916		
	US 1999-424751	A1	19991129		

10/087451
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:15:41 ON 22 APR 2004

L1 28 S RIFAMYCIN (2W) (SYNTHASE OR SYNTHETASE)
L2 3 S L1 AND HYBRID
L3 5 S L1 AND LOAD?
L4 0 S L2 AND L3

L1 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:898258 CAPLUS
TI Protein and DNA sequences of *Streptomyces hydroscopicus* 17997 gene cluster
for biosynthesis of geldanamycin

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1388252	A	20030101	CN 2002-125957	20020806
PRAI	CN 2002-125957		20020806		

L1 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:827039 CAPLUS
TI A Switch for the Transfer of Substrate between Nonribosomal Peptide and
Polyketide Modules of the Rifamycin Synthetase
Assembly Line

AU Admiraal, Suzanne J.; Khosla, Chaitan; Walsh, Christopher T.
SO Journal of the American Chemical Society (2003), 125(45), 13664-13665

L1 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:822554 CAPLUS
TI Understanding Substrate Specificity of Polyketide Synthase Modules by
Generating Hybrid Multimodular Synthases
AU Watanabe, Kenji; Wang, Clay C. C.; Boddy, Christopher N.; Cane, David E.;
Khosla, Chaitan
SO Journal of Biological Chemistry (2003), 278(43), 42020-42026

L1 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:773119 CAPLUS
TI Premature release of polyketide intermediates by hybrid polyketide
synthase in *Amycolatopsis mediterranei* S699
AU Hong, Jay Sung Joong; Choi, Cha Yong; Yoon, Yeo Joon
SO Journal of Microbiology and Biotechnology (2003), 13(4), 613-619

L1 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:683063 CAPLUS
TI Engineered biosynthesis of an ansamycin polyketide precursor in
Escherichia coli
AU Watanabe, Kenji; Rude, Mathew A.; Walsh, Christopher T.; Khosla, Chaitan
SO Proceedings of the National Academy of Sciences of the United States of
America (2003), 100(17), 9774-9778

L1 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:965021 CAPLUS
TI Biosynthesis of polyketide synthase substrates
IN Khosla, Chaitan; Pfeifer, Blaine

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002192767	A1	20021219	US 2002-87451	20020228
	US 2002045220	A1	20020418	US 2001-798033	20010228
	US 2002142401	A1	20021003	US 2001-942407	20010829
PRAI	US 1999-159090P	P	19991013		
	US 2000-206082P	P	20000518		
	US 2000-232379P	P	20000914		
	US 2000-687855	A2	20001013		
	US 2001-798033	A2	20010228		
	US 1999-161414P	P	19991025		
	US 1999-161703P	P	19991027		
	US 2000-699136	A3	20001027		

L1 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:676167 CAPLUS

TI Biosynthesis of unusual substrates for polyketide synthases and their use in the biosynthesis of novel polyketides

IN Khosla, Chaitan; Pfeifer, Blaine

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002068613	A1	20020906	WO 2002-US6399	20020228
	US 2002045220	A1	20020418	US 2001-798033	20010228
	EP 1381672	A1	20040121	EP 2002-725059	20020228
PRAI	US 2001-798033	A	20010228		
	US 2002-355211P	P	20020208		
	US 1999-159090P	P	19991013		
	US 2000-206082P	P	20000518		
	US 2000-232379P	P	20000914		
	US 2000-687855	A2	20001013		
	WO 2002-US6399	W	20020228		

L1 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:237711 CAPLUS

TI The Loading and Initial Elongation Modules of Rifamycin Synthetase Collaborate To Produce Mixed Aryl Ketide Products

AU Admiraal, Suzanne J.; Khosla, Chaitan; Walsh, Christopher T.

SO Biochemistry (2002), 41(16), 5313-5324

L1 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:73807 CAPLUS

TI Expression and Purification of the Rifamycin Amide Synthase, Riff, an Enzyme Homologous to the Prokaryotic Arylamine N-Acetyltransferases

AU Pompeo, Frederique; Mushtaq, Adeel; Sim, Edith

SO Protein Expression and Purification (2002), 24(1), 138-151

L1 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:890104 CAPLUS

TI Cloning and partial characterization of the putative rifamycin biosynthetic gene cluster from the actinomycete Amycolatopsis mediterranei DSM 46095

AU Kaur, Hardeep; Cortes, Jesus; Leadlay, Peter; Lal, Rup

SO Microbiological Research (2001), 156(3), 239-246

L1 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:761734 CAPLUS
 TI Antibiotic biosynthesis: From natural to unnatural compounds
 AU Floss, H. G.
 SO Journal of Industrial Microbiology & Biotechnology (2001), 27(3), 183-194

L1 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:279758 CAPLUS
 TI The Loading Module of Rifamycin Synthetase Is an
 Adenylation-Thiolation Didomain with Substrate Tolerance for Substituted
 Benzoates
 AU Admiraal, Suzanne J.; Walsh, Christopher T.; Khosla, Chaitan
 SO Biochemistry (2001), 40(20), 6116-6123

L1 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:573921 CAPLUS
 TI Linker peptides for connecting modules of polyketide synthase and use of
 recombinant enzymes for preparing novel polyketides
 IN Gokhale, Rajesh S.; Tsuji, Stuart Y.; Khosla, Chaitan
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 2000047724 A2 20000817 WO 2000-US3345 20000209
 WO 2000047724 A3 20001207
 CA 2359801 AA 20000817 CA 2000-2359801 20000209
 EP 1153124 A2 20011114 EP 2000-907235 20000209
 JP 2002536014 T2 20021029 JP 2000-598624 20000209
 PRAI US 1999-119363P P 19990209
 WO 2000-US3345 W 20000209

L1 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN ~~2000:373084~~ CAPLUS
 TI ~~Thioesterases and the premature termination of polyketide chain elongation~~
~~in rifamycin B biosynthesis by Amycolatopsis mediterranei S699~~
 AU ~~Doi-Katayama, Yukiko; Yoon, Yeo Joon; Choi, Cha-Yong; Yu, Tin-Wein; Floss,~~
~~Heinz G.; Hutchinson, C. Richard~~
 SO ~~Journal of Antibiotics (2000), 53(5), 484-495~~

L1 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:34992 CAPLUS
 TI Methods for making polyketides by replacement of ketosynthase and
 aminotransferase domains in polyketide synthases
 IN Khosla, Chaitan; Lau, Janice; Pohl, Nicola L.
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 2000001838 A2 20000113 WO 1999-US15047 19990702
 WO 2000001838 A3 20001116
 CA 2341640 AA 20000113 CA 1999-2341640 19990702
 AU 9949671 A1 20000124 AU 1999-49671 19990702
 AU 765821 B2 20031002
 US 6221641 B1 20010424 US 1999-346860 19990702
 EP 1100927 A2 20010523 EP 1999-933665 19990702
 JP 2002525026 T2 20020813 JP 2000-558228 19990702
 US 2001051356 A1 20011213 US 2000-735685 20001212
 US 6551802 B2 20030422
 US 2004018597 A1 20040129 US 2003-400092 20030325
 PRAI US 1998-91526P P 19980702
 US 1998-91610P P 19980702

US 1999-346860 A3 19990702
WO 1999-US15047 W 19990702
US 2000-735685 A1 20001212
OS MARPAT 132:90053

L1 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:34981 CAPLUS
TI Fusion proteins of polyketide synthase functional domains and their use in
the generation of novel polyketides
IN Kellenberger, Johannes Laurenz; Leadlay, Peter Francis; Staunton, James;
Stutzman-Engwall, Kim Jonelle; McArthur, Hamish Alastair Irvine
PA Biotica Technology Limited, UK; Pfizer Inc.
SO PCT Int. Appl., 76 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000001827	A2	20000113	WO 1999-GB2158	19990706
	WO 2000001827	A3	20000427		
	AU 9946365	A1	20000124	AU 1999-46365	19990706
	AU 762185	B2	20030619		
	BR 9911898	A	20010327	BR 1999-11898	19990706
	EP 1095147	A2	20010502	EP 1999-929580	19990706
	JP 2002519066	T2	20020702	JP 2000-558217	19990706
	NZ 509602	A	20031219	NZ 1999-509602	19990706
	ZA 2001000775	A	20011105	ZA 2001-775	20010126
PRAI	GB 1998-14622	A	19980706		
	WO 1999-GB2158	W	19990706		

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L1 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:26687 CAPLUS
TI Intermediates of rifamycin polyketide synthase
produced by an Amycolatopsis mediterranei mutant with inactivated rff
gene
AU Stratmann, Ansgar; Toupet, Christiane; Schilling, Wolfgang; Traber, Rene;
Oberer, Lukas; Schupp, Thomas
SO Microbiology (Reading, United Kingdom) (1999), 145(12), 3365-3375

L1 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:779048 CAPLUS
TI Biosynthesis of the ansamycin antibiotic rifamycin: polyketide
synthase processes multiple polyketide chains simultaneously
AU Doi-Katayama, Yukiko; Tang, Li; Park, Cheonseok; Yu, Tin-Wein; Shen,
Yuemao; Moore, Bradley S.; Floss, Heinz G.; Hutchinson, C. Richard
SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1999), 41st, 637-642
DT ~~Journal~~; General Review
LA Japanese

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L1 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:673722 CAPLUS
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AU Floss, Heinz G.; Yu, Tin-Wein
SO Current Opinion in Chemical Biology (1999), 3(5), 592-597

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L1 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:648251 CAPLUS
TI A host-vector system for analysis and manipulation of rifamycin polyketide biosynthesis in *Amycolatopsis mediterranei*
AU Hu, Zhihao; Hunziker, Daniel; Hutchinson, C. Richard; Khosla, Chaitan
SO Microbiology (Reading, United Kingdom) (1999), 145(9), 2335-2341

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L1 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
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AU Yu, Tin-Wein; Shen, Yuemao; Doi-Katayama, Yukiko; Tang, Li; Park, Cheonseok; Moore, Bradley S.; Hutchinson, C. Richard; Floss, Heinz G.
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L1 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
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AU Yang, Y. L.; Jiang, W. H.; Chiao, J. S.; Zhao, G. P.
SO *Actinomycetologica* (1998), 12(2), 141-147

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AU Mao, Yingqing; Varoglu, Mustafa; Sherman, David H.
SO *Journal of Bacteriology* (1999), 181(7), 2199-2208

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L1 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
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TI Biosynthesis of the ansamycin antibiotic rifamycin: deductions from the molecular analysis of the rif biosynthetic gene cluster of *Amycolatopsis mediterranei* S699
AU August, Paul R.; Tang, Li; Yoon, Yeo J.; Ning, Sandra; Muller, Rolf; Yu, Tin-Wein; Taylor, Matthew; Hoffmann, Dietmar; Kim, Chun-Gyu; Zhang, Xiaochong; Hutchinson, C. Richard; Floss, Heinz G.
SO *Chemistry & Biology* (1998), 5(2), 69-79

L1 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
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IN Schupp, Thomas; Toupet, Christiane; Engel, Nathalie
PA Novartis A.-G.,
SO PCT Int. Appl., 205 pp.

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L1 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:121359 CAPLUS

TI Cloning and sequence analysis of the putative rifamycin
polyketide synthase gene cluster from *Amycolatopsis mediterranei*

AU Schupp, Thomas; Toupet, Christiane; Engel, Nathalie; Goff, Stephen

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L1 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

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Khosla, Chaitan

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L1 ~~ANSWER 28 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN~~

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glutamine synthetase~~

AU ~~Ni, Liuying; Liu, Cijun; Jin, Zhikun; Chiao, Ruishen~~

SO ~~Weishengwu Xuebao (1984), 24(3), 217-23~~

LA ~~Chinese~~